Deaths &

Property &

Event Type and Details

Date/Time

Location

	Injuries	Crop Dmg	· ·
AKE MICHIGAN			
WIND PT LT WI TO WINTHROP HBR IL COUNTY 1.2 ENE KE 08/13/11 11:		0	Marina Thundaratorm Wind (MC 25 kt)
08/13/11 11: 08/13/11 11:		0	Marine Thunderstorm Wind (MG 35 kt) Source: C-MAN Station
A strong thunderstorm affected the nearshore waters of Lake N	Michigan south of Wind Po	int and produced stro	ng thunderstorm winds.
WIND PT LT WI TO WINTHROP HBR IL COUNTY 1.2 ENE KE	NOSHA [42.59, -87.81]		
08/20/11 09:	:10 CST	0	Marine Thunderstorm Wind (MG 44 kt)
08/20/11 09:	:10 CST	0	Source: C-MAN Station
A severe thunderstorm affected the near shore waters from Wi	nd Point to Winthrop Harbo	or Illiois during the lat	e morning.
WISCONSIN, Southeast			
DOCK COUNTY DOMNITOWN IANIESVILLE 142 CB 00 021 2	A E DOWNTOWN IANGEW	11514269 99 991	
ROCK COUNTY DOWNTOWN JANESVILLE [42.68, -89.02], 2. 08/02/11 16		0 0	Hail (2.25 in)
08/02/11 16		0	Source: Public
The father of a trained spotter reported a severe thunderstorm that downtown Janesville.	at produced 2.25 inch hail as	s it moved east-southea	ast along State Highway 11 from
WALWORTH COUNTY 0.4 S DELAVAN ARPT [42.62, -88.60]			
08/02/11 16:	:30 CST	0	Thunderstorm Wind (EG 56 kt)
08/02/11 16:	:30 CST	0	Source: Law Enforcement
Police officers reported trees blown down along the northeast side dozen trees were blown over on the Lake Lawn Resort property in the summer. WALWORTH COUNTY WILLIAMS BAY [42.58, -88.53]	•	_	
08/02/11 16	:50 CST	0	Thunderstorm Wind (EG 56 kt)
08/02/11 16:		0	Source: Newspaper
Powerful thunderstorm winds toppled about a dozen trees in the hat 1000 volunteer hours and \$6000 would be needed to clean usthe thunderstorm winds. Several trees were knocked over by the Monetary damage amounts from the Village were not available. RACINE COUNTY 3.0 WNW DOWNTOWN RACINE [42.74, -87]	p the tree debris over a spar winds within the Village of V 7.85]	n of about 6 weeks. Th	nis clean-up cost is indirectly related to sulted in snapped power-lines.
08/02/11 16:			Thunderstorm Wind (EG 56 kt)
08/02/11 16:	160 06.	0	Source: Amateur Radio
An amateur radio operator reported trees, tree limbs and power linestimated at 65 mph (56 knots). The downed trees and power lines			
KENOSHA COUNTY TWIN LAKES [42.53, -88.25]			
08/02/11 17:	:00 CST	0	Thunderstorm Wind (EG 50 kt)
08/02/11 17:	:00 CST	0	Source: Law Enforcement
Police officers reported trees, tree limbs and power lines blown do at 58 mph (50 knots).	own in Twin Lakes in southw	vest Kenosha County b	y thunderstorm wind gusts estimated
KENOSHA COUNTY 2.0 NW PLEASANT PRAIRIE [42.57, -87.	96]		
08/02/11 17:	:10 CST	0	Funnel Cloud
08/02/11 17:	:10 CST	0	Source: Trained Spotter

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Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
KENOSHA COUNTY 3.0 SSE PLEASANT PRA	IRIE [42.51, -87.91]			
	08/02/11 17:18 CST		0	Thunderstorm Wind (EG 55 kt)
	08/02/11 17:18 CST		0	Source: Emergency Manager

The Kenosha County Emergency Manager reported trees and tree limbs blown down near Pleasant Prairie in far southeast Kenosha County by thunderstorm wind gusts estimated at 63 mph (55 knots). A semi-trailer was also blown over by the damaging wind gusts.

A broken line of strong to severe thunderstorms formed along and ahead of a cold front...with lift further enhanced by a short wave passing through the region. Southern Wisconsin was in a strongly unstable air mass ahead of the front, with temperatures in the lower 90s and dew points in the upper 70s to around 80 degrees F. Mixed Layer CAPE values reached 3000 to 4000 J/Kg, and when combined with deep layer shear of 30 to 40 knots, set up conditions favorable for organized storm modes, including supercells and bowing segments. The resulting severe thunderstorms produced large hail and damaging wind gusts across portions of Rock County and the southern-most counties of Southeast Wisconsin. Up to 11,600 We Energies customers were without power in Racine and Kenosha Counties alone at the height of the storms.

DANE COUNTY 1.2 N BLOOMING GROVE [43.07, -89.37], 0.9 ENE BLOOMING GROVE [43.05, -89.35]							
08/08/11 18:13 CST	0	Tornado (EF0, L: 1.21 mi , W: 20 yd)					
08/08/11 18:22 CST	0	Source: Law Enforcement					

Law enforcement officials, as well as many members of the general public, reported a tornado that formed and stayed over Lake Monona, about 1 mile east of Law Park in the City of Madison. The tornado tracked south, then southeast, over the lake before dissipating west of Squaw Bay, about 1/4 mile north of Waunona Park. No damage was reported. The tornado kicked up water spray, estimated about 20 feet wide at the surface of the water expanding to 40 feet wide about 40 feet above the water. Many public reports of the tornado/waterspout came into local law enforcement, along with photos and video clips of the vortex from a variety of locations around the lake. The associated condensation funnel never developed more than half-way down to the water surface. Though actually a waterspout, it is being termed a tornado in the official Storm Data report due to National Weather Service rules that limit waterspout reports to bodies of water with a designated marine zone. Lake Monona does not have an assigned marine zone number. The exact starting point was Lat 43.06722 and Lon -89.36588, the mid-point was Lat 43.05864 and Lon -89.36147, and the end point was Lat 43.05263 and Lon -89.35266. The average path width was 15 yards. This tornado-waterspout had estimated wind speeds of 30 to 40 mph based on eyewitness reports. This value is below the minimum wind speed of an EF-0 tornado which is 65 mph in the current EF-Scale.

An unusual tornado event occurred during the early evening hours of August 8th. A vigorous short wave moved across the region in the early evening hours. While deep layer wind shear was weak, there was enough instability, with CAPE values around 700 J/Kg, to produce strong enough updrafts to ingest low-level vorticity and stretch it to produce non-supercell tornadoes (land-spout variety). A weak EF0 tornado formed as a shower moved over a weak, west to east orientated low-level atmospheric boundary over Lake Monona in Madison, southeast of the State Capitol.

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Location Date/Time Deaths & Property & Event Type and Details



The map graphic shows the path of the August 8th tornado/waterspout over Lake Monona based on a number of reports from various locations around, and on the lake. The picture was taken by Steve Brown of Madison from the northeast corner of Lake Monona, looking to the southwest.

 08/12/11 18:10 CST
 0
 Thunderstorm Wind (EG 50 kt)

 08/12/11 18:30 CST
 0
 Source: Trained Spotter

A trained spotter reported trees and power lines blown down by thunderstorm wind gusts estimated at 58 mph (50 knots) in an 8-mile wide swath, running west to east near State Highway 33, from north of Iron Ridge to south-southeast of Theresa.

WASHINGTON COUNTY --- 3.0 W JACKSON [43.32, -88.23]

08/12/11 18:29 CST 0 Funnel Cloud

08/12/11 18:29 CST 0 Source: COOP Observer

WASHINGTON COUNTY --- 2.0 N SLINGER [43.36, -88.28], 2.0 NE JACKSON [43.34, -88.14]

08/12/11 18:50 CST 0 Thunderstorm Wind (EG 50 kt)

08/12/11 19:00 CST 0 Source: Public

Public reports were received of trees and power lines blown down by thunderstorm wind gusts estimated at 58 mph (50 knots) in an 5-mile wide swath from north of Slinger to northeast of Jackson.

WASHINGTON COUNTY --- 4.0 E JACKSON [43.32, -88.09]

08/12/11 18:53 CST 0 Funnel Cloud

08/12/11 18:53 CST 0 Source: Trained Spotter

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Location	Date/Time	Deaths &	Property & Crop Dmg	Event Type and Details	
		Injuries			
Varm and moist air pushing in	nto southern Wisconsin ahead of an advan	cing short wave trou	igh across Minnes	ota produced a few	
trong to severe thunderstorn	ns across a small portion of Southeast Wis	consin during the ev	rening hours of Au	gust 12th. Instability was	
•	st under 1000 J/Kg, but sufficient when co	upled with modest s	hear to produce th	e severe thunderstorms	
vith damaging winds and a co	ouple of funnel cloud reports.				
ROCK COUNTY 1.5 NE NEV	VARK [42.57, -89.21]				
	08/20/11 07:07 CST		0	Hail (0.75 in)	
	08/20/11 07:07 CST		0	Source: COOP Observer	
ROCK COUNTY 1.0 SSE NE	WARK [42.54, -89.22]				
	08/20/11 07:10 CST		0	Hail (1.25 in)	
	08/20/11 07:10 CST		0	Source: Trained Spotter	
Varm air advection and vortic	ity advection ahead of a short wave trough	n combined with forc	ing along a surfac	e cold front to produce	
	Wisconsin during the morning hours of A	ugust 20th. Some of	the thunderstorm	s produced large hail in	
southwest Rock County near	Newark.				
ROCK COUNTY BELOIT [42	2.52, -89.03]				
	08/23/11 07:10 CST		1K	Lightning	
	00/20/11 07/10 001				

Lightning struck an iron gate at the Pierce Distribution facility at 601 Third St. in Beloit around 8 am on August 23rd. The electrical charge from the lightning strike traveled to two nearby electrical panels, producing sparks that caused a minor fire. Minimal damage and no injuries were reported by the Beloit Fire Department.

A line of thunderstorms crossing southern Wisconsin during the morning hours of August 23rd produced numerous cloud-to-ground lightning strikes. Lightning struck a business in Beloit, in Rock County that started a small electrical fire. The fire was quickly put out with minimal damage by the Beloit Fire Department.

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